

**PERFECT SCORE HIGH PERFORMANCE HP-5503 CUTTING FLUID  
SAFETY DATA SHEET (SDS)**

**SECTION 1 PRODUCT AND COMPANY IDENTIFICATION**

**Manufactures Name:**

Perfect Score Technologies, LLC 4012 Bronze Way Dallas Texas 75237

**Trade Name:** Perfect Score High Performance HP-5503 Cutting Fluid

**Product Category:** Petroleum Solvent

Transport and Medical Emergency: 469-658-9303

**SECTION 2 HAZARDS IDENTIFICATION**

Material is hazardous according to regulatory guidelines (SDS Section 15).

**Classification:**

Flammable Liquid: Category 3.  
Aspiration Toxicant: Category 1.

**LABEL**

**Pictogram**



**Signal Word:** Danger

**Precautionary Statements:**

P210 Keep away from heat, open flames No Smoking  
P233 Keep container tightly closed.  
P243 Take precaution measures against static charge.  
P280 Wear protective gloves and eye/ face protection.  
P301+P310 If Swallowed call a Poison Center or Physician.  
P303+P361+P353 if on skin take off immediately contaminated clothing.  
P331 Do not induce vomiting.  
P332+P313 if skin irritation occurs, get medical advice / attention.  
P370+P378 In case of fire, water fog, foam, dry chemical or carbon dioxide.  
P403+P235 Store in well ventilated place, keep cool.

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**Hazardous Statement:**

H226: Flammable liquid and vapor.  
H304: May be fatal if swallowed and enters airway.

**Hazard not Otherwise Classified (HNOC):**

None as defined under 29 CFR 1910.1200

**Health Hazards:**

Repeated exposure may cause skin dryness or cracking. Mildly irritating to skin. May be irritated to the eyes, nose, throat, and lungs.

**Chemical Hazards:**

Material can accumulate static charges which may cause ignition.

**Environmental Hazards: No significant hazards**

NFPA Hazard ID:	Health 1	Flammability: 2	Reactivity: 0
HMIS Hazard ID:	Health 1	Flammability: 2	Reactivity: 0

<b>SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS</b>
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Defined as a complex substance.

**Components:**

Petroleum-Distillates (>97%) , Hydrocarbon Sulfosuccinate (<3%)  
CAS# 64742-48-9

<b>SECTION 4 FIRST AID MEASURES</b>
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**SKIN**

In case of skin contact, remove any contaminated clothing and wash skin with soap and water. Should product be injected into or under skin, or into any part of the body, regardless of appearance or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

**EYE CONTACT**

If splashed into the eyes, flush with clear water for 15 minutes or until irritation subsides. If irritation persists, call a physician.

**INHALATION**

If overcome by vapor, remove from the exposure and call a physician immediately. If breathing is irregular or has stopped, start resuscitation, administer oxygen, if available.

**INGESTION**

If ingested, DO NOT induce vomiting, call a physician immediately.

**SECTION 5 FIRE-FIGHTING MEASURES**

**FLASH POINT (Minimum)** 58 DEG C (136 DEG F)

**AUTOIGNITION TEMPERATURE COMBUSTIBLE** 225 DEG C (437 DEG F)

**FLAMMABLE OR EXPLOSIVE LIMITS - PERCENT BY VOLUME IN AIR**

Estimated flammable limit values: LEL 0.7% UEL 5.3%

**EXTINGUISHING MEDIA AND FIRE FIGHTING PROCEDURES**

Foam, water spray, dry chemical, carbon dioxide and vaporizing liquid type extinguishing agent may all be suitable for extinguishing fires involved in this type of product, depending on size or potential size of fire and circumstances related to the situation. Plan fire protection and response through consultation with local fire protection authorities. "Water maybe ineffective", but should be used to keep fire exposure containers cool.

If a leak or spill has ignited, use water spray to disperse the vapors and to protect persons attempting to stop a leak. Water spray should be used to flush spills away from exposures. Water will not extinguish the fire unless under favorable conditions.

**DECOMPOSITION PRODUCTS UNDER FIRE CONDITIONS**

Fumes, smoke, carbon monoxide, sulfur oxides, aldehydes and other decomposition products.

**SECTION 6 ACCIDENTAL RELEASE MEASURES**

**CLEAN WATER ACT / OIL POLLUTION ACT** This product may be classified as an oil under Section 311 of the Clean Water Act, and under the Oil Pollution Act. Discharges or spills into or leading to surface waters that cause a sheen must be reported to the National Response Center (1-800-424-8802).

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED** Shut off and eliminate all ignition sources. Keep people away. Recover free product. Add sand, earth or other suitable absorbent to spill area. Minimize breathing vapors. Minimize skin contact. Ventilate confined spaces. Open all windows and doors. Keep product out of sewers and watercourses by diking or impounding. Advise authorities if product has entered or may enter sewers, watercourses, or extensive land areas. Assure conformity with applicable governmental regulations. Continue to observe precautions for volatile, combustible vapors from absorbed material.

**SECTION 7 STORAGE AND HANDLING**

**HANDLING PRECAUTIONS** This liquid is volatile and gives off invisible vapors.

Vapor may settle in low areas or travel some distance along the ground or surface to ignition sources where they may ignite or explode. Keep product away from ignition sources, such as heat, sparks, pilot lights, static electricity, and open flames. "EMPTY" CONTAINER WARNING "Empty" containers retain residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

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Do not attempt to refill or clean containers since residue is difficult to remove. "Empty" drums should be completely drained, properly bunged and returned to a drum recycler. All other containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations. For work on tanks refer to Occupational Safety and Health Administration regulations, ANSI Z49.1, and other governmental and industrial references pertaining to cleaning, repairing, welding, or other contemplated operations.

<b>SECTION 8 EXPOSURE CONTROLLED / PERSONAL PROTECTION</b>
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**EXPOSURE LIMIT FOR TOTAL PRODUCT BASIS** - RCP 175 ppm (1200 mg/m<sup>3</sup>), TWA 100 ppm (400 mg/m<sup>3</sup>) based on total of hydrocarbon vapor for an 8-hour workday.

**VENTILATION** Use only with ventilation sufficient to prevent exceeding recommended exposure limit or buildup of explosive concentrations of vapor in air. No smoking, or use of flame or other ignition sources. Explosion proof ventilation equipment within exposed area.

**RESPIRATORY PROTECTION** Use supplied-air respiratory protection in confined or enclosed spaces, if needed.

**PROTECTIVE GLOVES** Use chemical-resistant gloves, if needed, to avoid prolonged or repeated skin contact.

**EYE PROTECTION** Use splash goggles or face shield when eye contact may occur.

**OTHER PROTECTIVE EQUIPMENT** Use chemical-resistant apron or other impervious clothing, if needed, to avoid contaminating regular clothing, which could result in prolonged or repeated skin contact.

**WORK PRACTICES / ENGINEERING CONTROLS** To prevent fire or explosion risk from static accumulation and discharge, effectively bond and/or ground product transfer system in accordance with National Fire Protection Association.

**PUBLICATIONS.** Keep containers closed when not in use. Do not store near heat, sparks, flame or strong oxidants. To prevent fire or explosion risk from static accumulation and discharge, effectively bond and/or ground product transfer system in accordance with the National Fire Protection Association standard for petroleum products.

**PERSONAL HYGIENE** Minimize breathing vapor or mist. Avoid prolonged or repeated contact with skin. Remove contaminated clothing; launder or dry-clean before re-use. Remove contaminated shoes and thoroughly clean and dry before re-use. Cleanse skin thoroughly after contact, before breaks and meals, and at end of work period. Product is readily removed from skin by waterless hand cleaners followed by washing thoroughly with soap and water.

**SECTION 9****PHYSICAL AND CHEMICAL PROPERTIES**

## GENERAL INFORMATION

Physical State: Liquid  
Form: Clear  
Color: Colorless  
Odor: Odorless  
Oder Threshold: N/D  
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## IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION

Relative Density: (@15.6 C) 0.762  
Density: 761 kg/m<sup>3</sup> (6.35 lbs/gal )  
Flammability: (Solid Gas) N/A  
Flash Point: 58°C (136°F) ASTM D-56  
Flammability Limits: (approx % in air) LEL 0.7 UEL 5.3  
Auto-ignition Temperature: 225°C (437°F)  
Boiling Point / Range: 183 (361°F) - 202°C (396°F)  
Decomposition Temperature: N/D  
Vapor Density: (Air=1) 5.6 @ 101kPa  
Vapor Pressure: 0.052kPa (0.39 mmHg) at 20°C  
Evaporation Rate 9n-butyl acetate = 1): 0.09  
pH: N/A  
Log Pow: N/A  
Solubility in Water: Negligible  
Viscosity: 1.27 cSt (1.27 mm / sec) at 40°C  
Oxidizing Properties: See Hazards Identification Section

## OTHER INFORMATION

Freezing Point: N/D  
Melting Point: N/A  
Pour Point: < -105°C (-157°F)  
Molecular Weight 162  
Hygroscopic: No  
Coefficient of Thermal Expansion: 0.00079 V/VDEGC

**SECTION 10****STABILITY AND REACTIVITY**

The product is stable and will not react violently with water. Hazardous polymerization will not occur. Avoid contact with strong oxidants such as liquid chlorine, concentrated oxygen, sodium hypochlorite, calcium hypochlorite, open flames, etc., as this presents a serious explosion hazard.

**SECTION 11****TOXICOLOGICAL INFORMATION**

NATURE OF HAZARD AND TOXICITY INFORMATION Prolonged or repeated skin contact with this product tends to remove skin oils, possibly leading to irritation and dermatitis; however, based on human experience and available toxicological data, this product is judged to be neither a "corrosive" nor an "irritant" by OSHA criteria. Product contacting the eyes may cause eye irritation. Product has a low order of acute oral and dermal toxicity, but minute amounts aspirated into the lungs during ingestion or vomiting may

cause mild to severe pulmonary injury and possibly death.

**SECTION 12 ECOLOGICAL INFORMATION**

Do not discharge this product into public waters or waterways unless authorized by a National Pollution Discharge Elimination System (NPDES) permit issued by the Environmental Protection Agency (EPA).

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**SECTION 13 DISPOSAL CONSIDERATION**

Product will evaporate at temperatures above 25C or 77F degrees. Other options for disposal may depend on the conditions under which it was used. To determine the proper method of disposal, refer to RCRA (40 CFR 261), as well as federal EPA and state and local regulations. Please refer to Sections 5, 6 and 15 for additional information.

**SECTION 14 TRANSPORTATION INFORMATION**

LAND (DOT)

Proper Shipping Name: PETROLRUM DISTILLATES N.O.S.  
Hazard Class & Division: COMBUSTIBLE LIQUID  
ID Number: 1268  
Packing Group: III  
EGR Number: 128  
Label: None  
Transport Document Name:

UN1268, PETROLEUM DISTILLATE, N.O.S. COMBUSTIBLE LIQUID, PG 111

Flash point of this material is greater than 100°F. Regulatory classification of this material varies. DOT: Flammable liquid or combustible liquid. OSHA: Combustible liquid. This material is not regulated under 49 CFR in a container of 119 gallons capacity or less when transported solely by land, as long as material is not a hazardous waste.

LAND (TDG)

Proper Shipping Name: PETROLRUM DISTILLATES N.O.S.

Hazard Class & Division: 3  
UD Number: 1268  
Packaging Group: III

SEA (IMDG)

Proper Shipping Name: PETROLRUM DISTILLATES N.O.S.  
Hazard Class & Division: 3  
EMS Number: F-E, S-E  
UN Number: 1268  
Packaging Group: 3  
Marine Pollutant: NO  
Label: 3  
Transport Document Name:

UN1268, PETROLEUM DISTILLATE, N.O.S., 3, PG 111, (58°C c.c.)

AIR (IATA)

Proper Shipping Name: PETROLRUM DISTILLATES N.O.S.  
Hazard Class & Division: 3  
UN Number: 1268  
Packaging Group: III  
Labels / Marks: 3

<b>SECTION 15 REGULATORY INFORMATION</b>
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**OSHA HAZARD COMMUNICATION STANDARD:** This material is considered hazardous in accordance with OSHA HazCom 2012, 29 CFR 1910.1200

**SARA 302:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302

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**CERLA:** This material is not subject to any special reporting under the requirements of the Comprehensive Environmental Response, Compensation and Liability Act (CERLA). Contact local authorities to determine if another reporting requirements apply.

**CWA/OPA:** This product is classified as an oil under Section 311 of the Clean Water Act (40 CFR 110) and the Oil Pollution Act of 1990. Discharge or spills which produce a visible sheen on

either surface water, or in waterways/sewers which lead to surface water, must be reported to the National Response Center at 800-424-8802.

**SARA (311/312) REPORTABLE HAZARD CATEGORIES:** Fire, Immediate Health, Delayed Health

**SARA (311) TOXIC RELEASE INVENTORY:** This material contains no chemicals subject to the supplier notification requirements of the SARA313 Toxic Release program.

<b>SECTION 16</b>
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<b>OTHER INFORMATION</b>
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The health and safety information presented herein must be used in conjunction with the pertinent standards for training, work practices and facilities design established by OSHA, NIOSH, NFPA, and similar organizations. The information and recommendations contained herein are, to the best of Perfect Score Technologies, LLC (PST) knowledge and belief, accurate and reliable as of the date issued.

PST does not warrant or guarantee their accuracy or reliability, and PST shall not be liable for any loss or damage arising out of the use thereof. The information and recommendations are offered for the user's consideration and examination, and it is the user's responsibility to satisfy itself that they are suitable and complete for its particular use. The Environmental Information included under Section 15 hereof as well as the Hazardous Materials Identification System (HMIS) and National Fire Protection Association (NFPA) ratings have been included by PST. The ratings recommended are based upon the criteria supplied by the developers of the rating systems.